

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000674

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: D21H 21/14, D21H 17/72, D21H 17/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B31F, D21H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| P,X | US 2004062907 A1 (LINDSAY ET AL), 1 April 2004 (01.04.2004), page 3, [0023], page 9, [0080], [0085], claims 22,27 -- | 1-16 |
| X | US 5635028 A (VINSON ET AL), 3 June 1997 (03.06.1997), column 4; column 8, line 2 - line 9; column 19, line 18 - line 27 | 1-4,6-20 |
| Y | -- | 5 |
| Y | US 6179961 B1 (FICKE ET AL), 30 January 2001 (30.01.2001), column 2, line 18 - line 34 -- | 5 |

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

13 August 2004

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | <p>US 6334931 B1 (DWIGGINS ET AL), 1 January 2002 (01.01.2002), page 29, table 16</p> <p style="text-align: center;">-- -----</p> | 6,7 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/07/2004

International application No.

PCT/SE 2004/000674

| | | | | | | |
|----|------------|----|------------|------|--------------|------------|
| US | 2004062907 | A1 | 01/04/2004 | NONE | | |
| US | 5635028 | A | 03/06/1997 | AT | 195359 T | 15/08/2000 |
| | | | | AU | 709472 B | 26/08/1999 |
| | | | | AU | 5426396 A | 07/11/1996 |
| | | | | BR | 9608104 A | 02/02/1999 |
| | | | | CA | 2218557 A | 24/10/1996 |
| | | | | CN | 1082590 B | 10/04/2002 |
| | | | | CN | 1184516 A | 10/06/1998 |
| | | | | CZ | 9703311 A | 17/06/1998 |
| | | | | DE | 69609708 D,T | 05/04/2001 |
| | | | | EP | 0821750 A,B | 04/02/1998 |
| | | | | SE | 0821750 T3 | |
| | | | | ES | 2148751 T | 16/10/2000 |
| | | | | HU | 9801180 A | 28/08/1998 |
| | | | | JP | 11504080 T | 06/04/1999 |
| | | | | KR | 264041 B | 01/11/2000 |
| | | | | NO | 974809 A | 19/12/1997 |
| | | | | NZ | 306095 A | 29/06/1999 |
| | | | | TR | 9701208 T | 00/00/0000 |
| | | | | WO | 9633310 A | 24/10/1996 |
| | | | | ZA | 9603101 A | 24/10/1996 |
| US | 6179961 | B1 | 30/01/2001 | AT | 235604 T | 15/04/2003 |
| | | | | AU | 752063 B | 05/09/2002 |
| | | | | AU | 9689698 A | 27/04/1999 |
| | | | | BR | 9813858 A | 19/09/2000 |
| | | | | CA | 2305546 A | 15/04/1999 |
| | | | | CN | 1281521 T | 24/01/2001 |
| | | | | DE | 69812672 D,T | 23/10/2003 |
| | | | | EP | 1023498 A,B | 02/08/2000 |
| | | | | ES | 2192338 T | 01/10/2003 |
| | | | | HK | 1030802 A | 00/00/0000 |
| | | | | JP | 2001519487 T | 23/10/2001 |
| | | | | TW | 396229 B | 00/00/0000 |
| | | | | WO | 9918289 A | 15/04/1999 |
| | | | | ZA | 9809019 A | 08/04/1999 |
| US | 6334931 | B1 | 01/01/2002 | CA | 2225642 A | 23/06/1998 |
| | | | | DE | 69728246 D | 00/00/0000 |
| | | | | EP | 0851061 A,B | 01/07/1998 |
| | | | | TR | 9701688 A | 00/00/0000 |
| | | | | US | 6033761 A | 07/03/2000 |
| | | | | US | 6068731 A | 30/05/2000 |
| | | | | US | 6143131 A | 07/11/2000 |
| | | | | US | 6277467 B | 21/08/2001 |
| | | | | US | 6328849 B | 11/12/2001 |